Claims listing:

- 1. (currently amended) A body fluid sampling system for use on a tissue site, the system comprising:
 - a disposable;
 - a penetrating member driver;
- a plurality of penetrating members arranged in a radial configuration [[on]] <u>in</u> the disposable wherein sharpened distal tips of the penetrating members point radially outward;

wherein an active one of said penetrating members may be operatively coupled to said penetrating member driver, said penetrating member driver moving said active one along a path out of a housing having a penetrating member exit, into said tissue site, stopping in said tissue site, and withdrawing out of said tissue site; [[and]]

a processor coupled to the penetrating member driving configured to provide instructions for a fast-into of penetrating members into a tissue site and slow-out velocity out of the tissue site; and

a plurality of analyte detecting members <u>positioned in the disposable</u>, wherein at least one of said analyte detecting members is positioned to receive fluid from a wound created by said active one of said penetrating members, wherein said detecting members are not pierced by the active one of the penetrating members.

- 2. 12. (cancelled)
- 13. (currently amended) A system as in claim 1 further comprising a penetrating member sensor positioned to monitor [[a]] the active one of said penetrating members coupled to said penetrating member driver, the penetrating member sensor configured to provide information relative to a depth of penetration of a penetrating member through a skin surface.
- 14. (original) The system of claim 13, wherein the depth of penetration is about 100 to 2500 microns.

- 15. (original) The system of claim 13, wherein the depth of penetration is 500 to 750 microns.
- 16. (original) The system of claim 13, wherein the depth of penetration is no more than about 1000 microns beyond a stratum corneum thickness of a skin surface.
- 17. (original) The system of claim 13, wherein the depth of penetration is no more than about 500 microns beyond a stratum corneum thickness of a skin surface.
 - 18. 20. (cancelled).
- 21. (currently amended) The system of claim 1, wherein the <u>penetrating</u> <u>member</u> driver is selected from one of the following: a voice coil, a rotary voice coil, a solenoid, a motor and gear box, a nanomuscle, or a combination of any of the above.
 - 22. 23. (cancelled).
- 24. (currently amended) The system of claim [22] 1, wherein the processor is utilized to monitor position and speed of [[a]] the active one of said penetrating members as the penetrating member moves in a first direction.
 - 25. 26. (cancelled).
- 27. (currently amended) The system of claim [22] 1, wherein the processor is utilized to monitor position and speed of [[a]] the active one of said penetrating members as the active one of said penetrating members moves in the first direction toward a target tissue, wherein the application of a launching force to the penetrating member is controlled based on position and speed of the penetrating member.
 - 28. 56. (cancelled).
- 57. (currently amended) The system of claim 1, wherein each penetrating member each of the plurality of penetrating members is an elongate member without molded attachments.

58. – 64. (cancelled).

65. (currently amended) A body fluid sampling system for use on a tissue site, the system comprising:

a disposable;

a penetrating member driver;

a plurality of penetrating members arranged in a radial configuration [on] <u>in</u> the disposable wherein sharpened distal tips of the penetrating members point radially outward;

wherein an active one of said penetrating members may be operatively coupled to said penetrating member driver, said penetrating member driver moving said active one along a path out of a housing having a penetrating member exit, into said tissue site, stopping in said tissue site, and withdrawing out of said tissue site; [and]

a processor coupled to the penetrating member driving configured to provide instructions for a fast-into of penetrating members into a tissue site and slow-out velocity out of the tissue site;

a plurality of analyte detecting members <u>positioned in the disposable</u>, wherein at least one of said analyte detecting members is positioned to receive fluid from a wound created by said active one of said penetrating members, wherein said detecting members are not pierced by the active one of the penetrating members; <u>and</u>

a coupler on said penetrating member driver configured to engage at least a portion of said elongate portion of the penetrating member and drive said member along a path into [[a]] the tissue site and withdrawn from [[a]] the tissue site.

a processor coupled to the penetrating member driving configured to provide instructions for a fast-into of penetrating members into a tissue site and slow-out velocity out of the tissue site; and

66. - 67. (cancelled).